(wold)

#19



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/442,489B

DATE: 06/12/2002 TIME: 16:54:40

Input Set : A:\EP.txt

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<110> APPLICANT: Albertsen, Hans
        Anand, Rakesh
        Carlson, Mary
 6
        Groden, Joanna
 7
        Hedge, Philip John
 8
        Joslyn, Geoff
        Kinzler, Kenneth
.10
       Markham, Alexander Fred
11
        ·Nakamura, Yusuke
12
         Thliveris, Andrew
13
                                                               ENTERED
         Vogelstein, Bert
14
         White, Raymond L.
17 <120> TITLE OF INVENTION: APC Antibodies
20 <130> FILE REFERENCE: 001107.78817
22 <140> CURRENT APPLICATION NUMBER: US 09/442,489B
23 <141> CURRENT FILING DATE: 1999-11-18
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26 <151> PRIOR FILING DATE: 1995-05-25
28 <150> PRIOR APPLICATION NUMBER: US 08/289,548
29 <151> PRIOR FILING DATE: 1994-08-12
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32 <151> PRIOR FILING DATE: 1991-08-08
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/442,489B

DATE: 06/12/2002 TIME: 16:54:40

Input Set : A:\EP.txt

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ca ++	1200
64 atcattcact cacagoctga tgacaagaga ggcaggogtg aaatcogagt cottoatott	1260
of the same to agagatta ctatassaca fattaggagt qqcaqqaaga ccargaacaa	1320
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the state of the s	1440
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73 adageattya tyyaatytyo teedyadyto actyagaata aagetyatat atytyetyta 74 agtyeettat ggaatttyte ageacattye actyagaata aagetyatat atytyetytä	1920
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76 gccattatty adaytygagy tyggatatat agartytata aaactttatt acaacactta 77 gaggaccaca ggcaaatcct aagagagaac aactgtctac aaactttatt acaacactta	2100
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105 catalglett caageagtga gaatacgtoo Louisten 206 cagetecate caagttetge acagagtaga agtggteage etcaaaagge tgecaettge	3/80

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/442,489B

DATE: 06/12/2002 TIME: 16:54:40

Input Set : A:\EP.txt

107	aaagtttctt	ctattaacca	agaaacaata	cagacttatt	gtgtagaaga	tactccaata	3840
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		L	asttataaac	CCCAGTGALC	LLCCayacay	CCCCggacaa	4320
			+ > > > A C A C C T	CCACCACCLC	Cicadacage	Coacaco	4380
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			atettetaea	cccaacaaa	allagillaga	cggcaa,	5400
		++aaaaat	aaaacctata	ccacadadia	Clyaalalalag	gacaca -	5460
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		+	. <u>~~~~~~~~</u>	CLAACCLCCC	₁ accuacuucu	. aga	5820
		. ++~~~~~~~~	- cccaataaat	caaaaacaaa	Cladacccat	. accedagaaa	5880
		L ++aaaaaaatc	. atocaaadac	araccagac	ı qayyyycayç	. uuccgucguu	5940
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1 E	4 yyayyadaa 5 taaccccc	a traaacarr	ccttcaage	a aacatgcct	t caatctctc	g aggcaggaca	6720
TO	5 Leagyeeaa	a Lyaaacayc		-			

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/442,489B

DATE: 06/12/2002 TIME: 16:54:40

Input Set : A:\EP.txt

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RAW SEQUENCE LISTING
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DATE: 06/12/2002
TIME: 16:54:40

Input Set : A:\EP.txt

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241       225       230       235       240         242       Glu Ala Glu Arg       Ser Ser Gln Asn Lys His Glu Thr Gly Ser His Asp       245       250       255         244       Ala Glu Arg Gln Asn Glu Gly Gln Gly Gln Gly Val Gly Glu Gly Glu Gly Gln Gln Gln Gly Gln Gln Gly Gln	210	Clu	Lyc	Δen	Tle	Leu	Ara	Ile	Ara	Gln	Leu	Leu	Gln	Ser	Gln	Ala	Thr
242       Glu Ala Glu Arg       Ser Ser Gln Asn Lys His Glu Thr Gly Ser His Asp         243       245       250       255         244 Ala Glu Arg Gln Asn Glu Gly Gln Gly Val Gly Glu Gly Glu Ile Asn Met Ala       265       270         246 Thr Ser Gly Asn Gly Gln Gly Gln Gly Ser Thr Thr Arg Met Asp His Glu Thr       275       285         248 Ala Ser Val Leu Ser Ser Ser Ser Ser Thr His Ser Ala Pro Arg Arg Leu       290       295         250 Thr Ser His Leu Gly Thr Lys Val Glu Met Val Tyr Ser Leu Leu Ser       310       315         251 305       310       315       320         252 Met Leu Gly Thr His Asp Lys Asp Asp Met Ser Arg Thr Leu Leu Ala       335         253 Met Ser Ser Ser Gln Asp Ser Cys Ile Ser Met Arg Gln Ser Gly Cys				nop.	110							235		•			240
243       245       250       255         244       Ala Glu Arg Gln Arg Gln Asn Glu Gly Gln Gly Gln Gly Val Gly Glu Ile Asn Met Ala         245       260       265       270         246       Thr Ser Gly Asn Gly Gln Gly Ser Thr Thr Arg Met Asp His Glu Thr       270         247       275       280       285         248       Ala Ser Val Leu Ser Ser Ser Ser Ser Thr His Ser Ala Pro Arg Arg Leu         249       290       295         250       Thr Ser His Leu Gly Thr Lys Val Glu Met Val Tyr Ser Leu Leu Ser         251       305         252       Met Leu Gly Thr His Asp Lys Asp Asp Met Ser Arg Thr Leu Leu Ala         253       325         254       Met Ser Ser Ser Gln Asp Ser Cys Ile Ser Met Arg Gln Ser Gly Cys	247	Glu	λla	Glu	Δrσ	Ser	Ser	Gln	Asn	Lvs	His	Glu	Thr	Gly	Ser	His	Asp
244       Ala Glu Arg Gln Asn Glu Gly Gln Gly Val Gly Glu Ile Asn Met Ala         245       260       265       270         246       Thr Ser Gly Asn Gly Gln Gly Ser Thr Thr Arg Met Asp His Glu Thr       270         247       275       280       285         248       Ala Ser Val Leu Ser Ser Ser Ser Ser Thr His Ser Ala Pro Arg Arg Leu       285         249       290       295       300         250       Thr Ser His Leu Gly Thr Lys Val Glu Met Val Tyr Ser Leu Leu Ser         251       305       310       315         252       Met Leu Gly Thr His Asp Lys Asp Asp Met Ser Arg Thr Leu Leu Ala         253       325         254       Met Ser Ser Ser Gln Asp Ser Cys Ile Ser Met Arg Gln Ser Gly Cys			Ата	GIU	пту			0.2.11		-1-	250			-		255	
245       260       265       270         246       Thr Ser Gly Asn Gly Gln Gly Ser Thr Thr Arg Met Asp 285       His Glu Thr 247         247       275       280       285         248       Ala Ser Val Leu Ser Ser Ser Ser Ser Thr His Ser Ala Pro Arg Arg Leu 290       295       300         250       Thr Ser His Leu Gly Thr Lys Val Glu Met Val Tyr Ser Leu Leu Ser 315       320         251       305       310       315       520         252       Met Leu Gly Thr His Asp Lys Asp Asp Met Ser Arg Thr Leu Leu Ala 335       330       335         253       325       330       335       335         254       Met Ser Ser Ser Gln Asp Ser Cys Ile Ser Met Arg Gln Ser Gly Cys	243	λla	C1 ₁₁	λνα	Gln	Δgn	Glu	Glv	Gĺn	Glv	Val	Glv	Glu	Ile	Asn	Met	Ala
246       Thr       Ser       Gly       Asn       Gly       Gln       Gly       Ser       Thr       Thr       Arg       Met       Asp       His       Glu       Thr         247       275       280       280       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       285       2			GIU	ar 9			OIG		0111	265		- 1			270		
247	243	шhх	Cor	C117	Z O O	G1v	Gln	Glv	Ser			Ara	Met	Asp	His	Glu	Thr
248 Ala Ser Val Leu Ser Ser Ser Ser Thr His Ser Ala Pro Arg Arg Leu 249 290 295 300  250 Thr Ser His Leu Gly Thr Lys Val Glu Met Val Tyr Ser Leu Leu Ser 251 305 310 315 320  252 Met Leu Gly Thr His Asp Lys Asp Asp Met Ser Arg Thr Leu Leu Ala 253 325 330 335  254 Met Ser Ser Ser Gln Asp Ser Cys Ile Ser Met Arg Gln Ser Gly Cys			ser			GLY	OIII	011				,		285			
249       290       295       300         250       Thr Ser His Leu Gly Thr Lys Val Glu Met Val Tyr Ser Leu Leu Ser         251       305       310       315       320         252       Met Leu Gly Thr His Asp Lys Asp Asp Met Ser Arg Thr Leu Leu Ala       253       330       335         254       Met Ser Ser Ser Gln Asp Ser Cys Ile Ser Met Arg Gln Ser Gly Cys	24/	*1-	C - m	2/3	T OU	Cor	Cor	Sar			His	Ser	Ala			Arq	Leu
250 Thr Ser His Leu Gly Thr Lys Val Glu Met Val Tyr Ser Leu Leu Ser 310 310 315 320 320 252 Met Leu Gly Thr His Asp Lys Asp Asp Met Ser Arg Thr Leu Leu Ala 253 325 330 335 335 254 Met Ser Ser Ser Gln Asp Ser Cys Ile Ser Met Arg Gln Ser Gly Cys					ьeu	Ser	Ser	205	JCI	4 111		501	300		,		
251 305 310 315 320  252 Met Leu Gly Thr His Asp Lys Asp Met Ser Arg Thr Leu Leu Ala 253 325 330 335  254 Met Ser Ser Gln Asp Ser Cys Ile Ser Met Arg Gln Ser Gly Cys	249	m1	290		т	C1	Πh∽			Glu	Mot	Val			Leu	Leu	Ser
252 Met Leu Gly Thr His Asp Lys Asp Asp Met Ser Arg Thr Leu Leu Ala 253 325 330 335 254 Met Ser Ser Ser Gln Asp Ser Cys Ile Ser Met Arg Gln Ser Gly Cys				HIS	ьeu	. Сту			٧٠٠	GIU	1100	315	-1-	502			320
253 325 330 335 254 Met Ser Ser Gln Asp Ser Cys Ile Ser Met Arg Gln Ser Gly Cys	25±	305	-	<b>01</b>	ml				λαη	λen	Mot			Thr	Len	Leu	
254 Met Ser Ser Gln Asp Ser Cys Ile Ser Met Arg Gln Ser Gly Cys			ьeu	СΤΆ	Inr			пуз	vah	vəh	330		9	- 11J		335	
260	253		_	<b>a</b> .					Crra	т1-			Δτα	Gln	Ser		
255 340 345			ser	ser			ASP	ser	Cys	315	. 2CI	1100	**** 9	011	350	1	-10
	255				340					747							

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/442,489B

DATE: 06/12/2002 TIME: 16:54:41

Input Set : A:\EP.txt

Output Set: N:\CRF3\06122002\I442489B.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the  $\langle 220 \rangle$  to  $\langle 223 \rangle$  fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 45,1057,1117,1553,1559,1581,1590,1639,1644,1749,1757,1769 Seq#:3; N Pos. 1948,1961,1962,1987,1991,2162,2183,2201,2204,2241,2242,2461

Seq#:3; N Pos. 2570,2574,2576,3142

Seq#:16; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13

Seq#:32; N Pos. 17
Seq#:36; N Pos. 8